

09/40 762

CRF Errors Corrected by the STIC Systems Branch

CRF Processing Date:

Edited by:

Verified by:

1652 0/PE

12/18/2002

Serial Number: 09/729,133

ENTERED

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Changed a file from non-ASCII to ASCII

Changed the margins in cases where the sequence text was "wrapped" down to the next line.

JAN 11 2001

Edited a format error in the Current Application Data section, specifically:

TECH CENTER 1600/2900

Edited the Current Application Data section with the actual current number. The number inputted by the applicant was  the prior application data; or  other

#D

Added the mandatory heading and subheadings for "Current Application Data".

Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

Changed the spelling of a mandatory field (the headings or subheadings), specifically:

Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

Inserted colons after headings/subheadings. Headings edited included:

Deleted extra, invalid, headings used by an applicant, specifically:

Deleted:  non-ASCII "garbage" at the beginning/end of files;  secretary initials/filename at end of file;  page numbers throughout text;  other invalid text, such as

Inserted mandatory headings, specifically:

Corrected an obvious error in the response, specifically:

Edited identifiers where upper case is used but lower case is required, or vice versa.

Corrected an error in the Number of Sequences field, specifically:

A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected:

Other:

*replaced PATENT No.: w/ (H) DOCUMENT NUMBER:  
(globally)*

Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95



**RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/729,133**

DATE: 12/29/2000  
TIME: 05:00:08

### **INPUT SET: S36258.raw**

**This Raw Listing contains the General Information Section and up to the first 5 pages.**

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**SEQUENCE LISTING**

(1) General Information

## TECH CENTER 1600/2900

(i) APPLICANT: Bryan, Bruce

(ii) TITLE OF INVENTION: BIOLUMINESCENT ARTICLES OF MANUFACTURE

(iii) NUMBER OF SEQUENCES: 14

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Heller Ehrman White & McAuliffe  
(B) STREET: 4250 Executive Square, 7th Floor  
(C) CITY: La Jolla  
(D) STATE: CA  
(E) COUNTRY: USA  
(F) ZIP: 92037

(v) COMPUTER READABLE FORM:

- (A) MEDIUM TYPE: Diskette
- (B) COMPUTER: IBM Compatible
- (C) OPERATING SYSTEM: DOS
- (D) SOFTWARE: FastSEO Version 1.5

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER:  
(B) FILING DATE:  
(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 09/444,762  
(B) FILING DATE: 11-22-99  
(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/757,046  
(B) FILING DATE: 11-25-96  
(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/597,274  
(B) FILING DATE: 02-06-96

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Seidman, Stephanie L  
(B) REGISTRATION NUMBER: 33,771

TC 1700 MAIL ROOM

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RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/729,133DATE: 12/29/2000  
TIME: 05:00:09

INPUT SET: S36258.raw

47 (C) REFERENCE/DOCKET NUMBER: 24727-105F  
 48  
 49 (ix) TELECOMMUNICATION INFORMATION:  
 50 (A) TELEPHONE: 619-450-8400  
 51 (B) TELEFAX: 619-450-8499  
 52 (C) TELEX:  
 53  
 54 (2) INFORMATION FOR SEQ ID NO:1:  
 55  
 56 (i) SEQUENCE CHARACTERISTICS:  
 57 (A) LENGTH: 1196 base pairs  
 58 (B) TYPE: nucleic acid  
 59 (C) STRANDEDNESS: single  
 60 (D) TOPOLOGY: linear  
 61  
 62 (ii) MOLECULE TYPE: cDNA  
 63  
 64 (vi) ORIGINAL SOURCE:  
 65  
 66 (ix) FEATURE:  
 67  
 68 (A) NAME/KEY: Coding Sequence  
 69 (B) LOCATION: 1...942  
 70 (D) OTHER INFORMATION: Renilla Reiniformis Luciferase  
 71  
 72 (x) PUBLICATION INFORMATION:  
 73  
 74 (H) DOCUMENT NUMBER: 5,418,155  
 75  
 76 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
 77  
 78 AGC TTA AAG ATG ACT TCG AAA GTT TAT GAT CCA GAA CAA AGG AAA CGG 48  
 79 Ser Leu Lys Met Thr Ser Lys Val Tyr Asp Pro Glu Gln Arg Lys Arg  
 80 1 5 10 15  
 81  
 82 ATG ATA ACT GGT CCG CAG TGG TGG GCC AGA TGT AAA CAA ATG AAT GTT 96  
 83 Met Ile Thr Gly Pro Gln Trp Trp Ala Arg Cys Lys Gln Met Asn Val  
 84 20 25 30  
 85  
 86 CTT GAT TCA TTT ATT AAT TAT GAT TCA GAA AAA CAT GCA GAA AAT 144  
 87 Leu Asp Ser Phe Ile Asn Tyr Tyr Asp Ser Glu Lys His Ala Glu Asn  
 88 35 40 45  
 89  
 90 GCT GTT ATT TTT TTA CAT GGT AAC GCG GCC TCT TCT TAT TTA TGG CGA 192  
 91 Ala Val Ile Phe Leu His Gly Asn Ala Ala Ser Ser Tyr Leu Trp Arg  
 92 50 55 60  
 93  
 94 CAT GTT GTG CCA CAT ATT GAG CCA GTA GCG CGG TGT ATT ATA CCA GAT 240  
 95 His Val Val Pro His Ile Glu Pro Val Ala Arg Cys Ile Ile Pro Asp  
 96 65 70 75 80  
 97  
 98 CTT ATT GGT ATG GGC AAA TCA GGC AAA TCT GGT AAT GGT TCT TAT AGG 288  
 99 Leu Ile Gly Met Gly Lys Ser Gly Lys Ser Gly Asn Gly Ser Tyr Arg

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/729,133DATE: 12/29/2000  
TIME: 05:00:09

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103	Leu Leu Asp His Tyr Lys Tyr Leu Thr Ala Trp Leu Asn Phe Leu Ile			
104	100	105	110	
105				
106	TAC CAA AGA AGA TCA TTT TTT GTC GGC CAT GAT TGG GGT GCT TGT TTG			384
107	Tyr Gln Arg Arg Ser Phe Phe Val Gly His Asp Trp Gly Ala Cys Leu			
108	115	120	125	
109				
110	GCA TTT CAT TAT AGC TAT GAG CAT CAA GAT AAG ATC AAA GCA ATA GTT			432
111	Ala Phe His Tyr Ser Tyr Glu His Gln Asp Lys Ile Lys Ala Ile Val			
112	130	135	140	
113				
114	CAC GCT GAA AGT GTA GTA GAT GTG ATT GAA TCA TGG GAT GAA TGG CCT			480
115	His Ala Glu Ser Val Val Asp Val Ile Glu Ser Trp Asp Glu Trp Pro			
116	145	150	155	
117				
118	GAT ATT GAA GAA GAT ATT GCG TTG ATC AAA TCT GAA GAA GGA GAA AAA			528
119	Asp Ile Glu Glu Asp Ile Ala Leu Ile Lys Ser Glu Glu Gly Glu Lys			
120	165	170	175	
121				
122	ATG GTT TTG GAG AAT AAC TTC TTC GTG GAA ACC ATG TTG CCA TCA AAA			576
123	Met Val Leu Glu Asn Asn Phe Phe Val Glu Thr Met Leu Pro Ser Lys			
124	180	185	190	
125				
126	ATC ATG AGA AAG TTA GAA CCA GAA TTT GCA GCA TAT CTT GAA CCA			624
127	Ile Met Arg Lys Leu Glu Pro Glu Glu Phe Ala Ala Tyr Leu Glu Pro			
128	195	200	205	
129				
130	TTC AAA GAG AAA GGT GAA GTT CGT CGT CCA ACA TTA TCA TGG CCT CGT			672
131	Phe Lys Glu Lys Gly Glu Val Arg Arg Pro Thr Leu Ser Trp Pro Arg			
132	210	215	220	
133				
134	GAA ATC CCG TTA GTA AAA GGT GGT AAA CCT GAC GTT GTA CAA ATT GTT			720
135	Glu Ile Pro Leu Val Lys Gly Gly Lys Pro Asp Val Val Gln Ile Val			
136	225	230	235	
137				
138	AGG AAT TAT AAT GCT TAT CTA CGT GCA AGT GAT GAT TTA CCA AAA ATG			768
139	Arg Asn Tyr Asn Ala Tyr Leu Arg Ala Ser Asp Asp Leu Pro Lys Met			
140	245	250	255	
141				
142	TTT ATT GAA TCG GAT CCA GGA TTC TTT TCC AAT GCT ATT GTT GAA GGC			816
143	Phe Ile Glu Ser Asp Pro Gly Phe Phe Ser Asn Ala Ile Val Glu Gly			
144	260	265	270	
145				
146	GCC AAG AAG TTT CCT AAT ACT GAA TTT GTC AAA GTA AAA GGT CTT CAT			864
147	Ala Lys Lys Phe Pro Asn Thr Glu Phe Val Lys Val Lys Gly Leu His			
148	275	280	285	
149				
150	TTT TCG CAA GAA GAT GCA CCT GAT GAA ATG GGA AAA TAT ATC AAA TCG			912
151	Phe Ser Gln Glu Asp Ala Pro Asp Glu Met Gly Lys Tyr Ile Lys Ser			
152	290	295	300	

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**RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/729,133**

DATE: 12/29/2000  
TIME: 05:00:09

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155    Phe Val Glu Arg Val Leu Lys Asn Glu Gln
156    305           310
157
158    CATTTTCCC GGGTTTAATA ATATAAATGT CATTTCAAC AATTTATTT TAACTGAATA 1025
159    TTTCACAGGG AACATTCATA TATGTTGATT AATTTAGCTC GAACTTTACT CTGTCATATC 1085
160    ATTTTGGAAAT ATTACCTCTT TCAATGAAAC TTTATAAACCA GTGGTTCAAT TAATTAATAT 1145
161    ATATTATAAT TACATTTGTT ATGTAATAAA CTGGTTTA TTATAAAAAA A 1196

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162  
163 (3) INFORMATION FOR SEQ ID NO:2:

165 (i) SEQUENCE CHARACTERISTICS:  
166 (A) LENGTH: 1822 base pairs  
167 (B) TYPE: nucleic acid  
168 (C) STRANDEDNESS: single  
169 (D) TOPOLOGY: linear

171 (i) MOLECULE TYPE: cDNA

173 (ix) FEATURE:

175 (A) NAME/KEY: Coding Sequence  
176 (B) LOCATION: 1...1665  
177 (D) OTHER INFORMATION: Cypridina hilgendorfii luciferase

179 (x) PUBLICATION INFORMATION:

(H) DOCUMENT NUMBER: EP 0 387 355 TORAY

183 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

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188
189     AAC TGC CAG GAT GCA TGT CCT GTA GAA GCT GAA GCA CCG TCA AGT ACA 96
190     Asn Cys Gln Asp Ala Cys Pro Val Glu Ala Glu Ala Pro Ser Ser Thr
191             20          25          30

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192  
193 CCA ACA GTC CCA ACA TCT TGT GAA GCT AAA GAA GGA GAA TGT ATC GAT 144  
194 Pro Thr Val Pro Thr Ser Cys Glu Ala Lys Glu Gly Glu Cys Ile Asp  
195 35 40 45

196  
197 ACC AGA TGC GCA ACA TGT AAA CGA GAC ATA CTA TCA GAC GGA CTG TGT 192  
198 Thr Arg Cys Ala Thr Cys Lys Arg Asp Ile Leu Ser Asp Gly Leu Cys  
199 50 55 60

204 GAA TCC AGA GAA GCT GCT GGA TAT TTT AGA ACG TTT TAG GCC AAA 288

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/729,133DATE: 12/29/2000  
TIME: 05:00:10

INPUT SET: S36258.raw

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209	AGA TTT AAT TTT CAG GAA CCT GGT AAA TAT GTG CTG GCT CGA GGA ACC		336
210	Arg Phe Asn Phe Gln Glu Pro Gly Lys Tyr Val Leu Ala Arg Gly Thr		
211	100	105	110
212			
213	AAG GGT GGC GAC TGG TCT GTA ACC CTC ACC ATG GAG AAT CTA GAT GGA		384
214	Lys Gly Gly Asp Trp Ser Val Thr Leu Thr Met Glu Asn Leu Asp Gly		
215	115	120	125
216			
217	CAG AAG GGA GCT GTA CTG ACT AAG ACA ACA CTG GAG GTA GAA GAC		432
218	Gln Lys Gly Ala Val Leu Thr Lys Thr Thr Leu Glu Val Val Gly Asp		
219	130	135	140
220			
221	GTA ATA GAC ATT ACT CAA GCT ACT GCA GAT CCT ATC ACA GTT AAC GGA		480
222	Val Ile Asp Ile Thr Gln Ala Thr Ala Asp Pro Ile Thr Val Asn Gly		
223	145	150	155
224			160
225	GGA GCT GAC CCA GTT ATC GCT AAC CCG TTC ACA ATT GGT GAG GTG ACC		528
226	Gly Ala Asp Pro Val Ile Ala Asn Pro Phe Thr Ile Gly Glu Val Thr		
227	165	170	175
228			
229	ATT GCT GTT GTC GAA ATA CCC GGC TTC AAT ATT ACA GTC ATC GAA TTC		576
230	Ile Ala Val Val Glu Ile Pro Gly Phe Asn Ile Thr Val Ile Glu Phe		
231	180	185	190
232			
233	TTT AAA CTA ATC GTG ATA GAT ATT CTG GGA GGA AGA TCT GTG AGA ATT		624
234	Phe Lys Leu Ile Val Ile Asp Ile Leu Gly Gly Arg Ser Val Arg Ile		
235	195	200	205
236			
237	GCT CCA GAC ACA GCA AAC AAA GGA CTG ATA TCT GGT ATC TGT GGT AAT		672
238	Ala Pro Asp Thr Ala Asn Lys Gly Leu Ile Ser Gly Ile Cys Gly Asn		
239	210	215	220
240			
241	CTG GAG ATG AAT GAC GCT GAT GAC TTT ACT ACA GAC GCA GAT CAG CTG		720
242	Leu Glu Met Asn Asp Ala Asp Asp Phe Thr Thr Asp Ala Asp Gln Leu		
243	225	230	235
244			240
245	GCG ATC CAA CCC AAC ATA AAC AAA GAG TTC GAC GGC TGC CCA TTC TAC		768
246	Ala Ile Gln Pro Asn Ile Asn Lys Glu Phe Asp Gly Cys Pro Phe Tyr		
247	245	250	255
248			
249	GGG AAT CCT TCT GAT ATC GAA TAC TGC AAA GGT CTC ATG GAG CCA TAC		816
250	Gly Asn Pro Ser Asp Ile Glu Tyr Cys Lys Gly Leu Met Glu Pro Tyr		
251	260	265	270
252			
253	AGA GCT GTA TGT CGT AAC AAT ATC AAC TTC TAC TAT TAC ACT CTG TCC		864
254	Arg Ala Val Cys Arg Asn Asn Ile Asn Phe Tyr Tyr Tyr Thr Leu Ser		
255	275	280	285
256			
257	TGC GCC TTC GCT TAC TGT ATG GGA GGA GAA AGA GCT AAA CAC GTC		912
258	Cys Ala Phe Ala Tyr Cys Met Gly Gly Glu Arg Ala Lys His Val		

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TECH CENTER 1000/2800

PAGE: 1

**SEQUENCE VERIFICATION REPORT  
PATENT APPLICATION US/09/729,133**

DATE: 12/29/2000  
TIME: 05:00:10

**INPUT SET: S36258.raw**

Line

Error

Original Text



### **INPUT SET: S36258.raw**



**This Raw Listing contains the General Information Section and up to the first 5 pages.**

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/729,133DATE: 12/29/2000  
TIME: 04:50:01

INPUT SET: S36258.raw

47 (C) REFERENCE/DOCKET NUMBER: 24727-105F

48

49 (ix) TELECOMMUNICATION INFORMATION:

50 (A) TELEPHONE: 619-450-8400  
51 (B) TELEFAX: 619-450-8499  
52 (C) TELEX:

53

54 (2) INFORMATION FOR SEQ ID NO:1:

55

56 (i) SEQUENCE CHARACTERISTICS:

57 (A) LENGTH: 1196 base pairs  
58 (B) TYPE: nucleic acid  
59 (C) STRANDEDNESS: single  
60 (D) TOPOLOGY: linear

61

62 (ii) MOLECULE TYPE: cDNA

63

64 (vi) ORIGINAL SOURCE:

65

66 (ix) FEATURE:

67

68 (A) NAME/KEY: Coding Sequence  
69 (B) LOCATION: 1...942  
70 (D) OTHER INFORMATION: Renilla Reiniformis Luciferase

71

72 (x) PUBLICATION INFORMATION:

73 (H) DOCUMENT NUMBER  
74 (H) PATENT NO.: 5,418,155

75

76 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

77

78 AGC TTA AAG ATG ACT TCG AAA GTT TAT GAT CCA GAA CAA AGG AAA CGG 48  
79 Ser Leu Lys Met Thr Ser Lys Val Tyr Asp Pro Glu Gln Arg Lys Arg  
80 1 5 10 15

81

82 ATG ATA ACT GGT CCG CAG TGG TGG GCC AGA TGT AAA CAA ATG AAT GTT 96  
83 Met Ile Thr Gly Pro Gln Trp Trp Ala Arg Cys Lys Gln Met Asn Val  
84 20 25 30

85

86 CTT GAT TCA TTT ATT AAT TAT GAT TCA GAA AAA CAT GCA GAA AAT 144  
87 Leu Asp Ser Phe Ile Asn Tyr Tyr Asp Ser Glu Lys His Ala Glu Asn  
88 35 40 45

89

90 GCT GTT ATT TTT TTA CAT GGT AAC GCG GCC TCT TCT TAT TTA TGG CGA 192  
91 Ala Val Ile Phe Leu His Gly Asn Ala Ala Ser Ser Tyr Leu Trp Arg  
92 50 55 60

93

94 CAT GTT GTG CCA CAT ATT GAG CCA GTA GCG CGG TGT ATT ATA CCA GAT 240  
95 His Val Val Pro His Ile Glu Pro Val Ala Arg Cys Ile Ile Pro Asp  
96 65 70 75 80

97

98 CTT ATT GGT ATG GGC AAA TCA GGC AAA TCT GGT AAT GGT TCT TAT AGG 288  
99 Leu Ile Gly Met Gly Lys Ser Gly Lys Ser Gly Asn Gly Ser Tyr Arg

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RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/729,133DATE: 12/29/2000  
TIME: 04:50:02

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104	100	105	110	
105				
106	TAC CAA AGA AGA TCA TTT TTT GTC GGC CAT GAT TGG GGT GCT TGT TTG			384
107	Tyr Gln Arg Arg Ser Phe Phe Val Gly His Asp Trp Gly Ala Cys Leu			
108	115	120	125	
109				
110	GCA TTT CAT TAT AGC TAT GAG CAT CAA GAT AAG ATC AAA GCA ATA GTT			432
111	Ala Phe His Tyr Ser Tyr Glu His Gln Asp Lys Ile Lys Ala Ile Val			
112	130	135	140	
113				
114	CAC GCT GAA AGT GTA GTA GAT GTG ATT GAA TCA TGG GAT GAA TGG CCT			480
115	His Ala Glu Ser Val Val Asp Val Ile Glu Ser Trp Asp Glu Trp Pro			
116	145	150	155	160
117				
118	GAT ATT GAA GAA GAT ATT GCG TTG ATC AAA TCT GAA GAA GGA GAA AAA			528
119	Asp Ile Glu Glu Asp Ile Ala Leu Ile Lys Ser Glu Glu Gly Glu Lys			
120	165	170	175	
121				
122	ATG GTT TTG GAG AAT AAC TTC TTC GTG GAA ACC ATG TTG CCA TCA AAA			576
123	Met Val Leu Glu Asn Asn Phe Phe Val Glu Thr Met Leu Pro Ser Lys			
124	180	185	190	
125				
126	ATC ATG AGA AAG TTA GAA CCA GAA TTT GCA GCA TAT CTT GAA CCA			624
127	Ile Met Arg Lys Leu Glu Pro Glu Glu Phe Ala Ala Tyr Leu Glu Pro			
128	195	200	205	
129				
130	TTC AAA GAG AAA GGT GAA GTT CGT CGT CCA ACA TTA TCA TGG CCT CGT			672
131	Phe Lys Glu Lys Gly Glu Val Arg Arg Pro Thr Leu Ser Trp Pro Arg			
132	210	215	220	
133				
134	GAA ATC CCG TTA GTA AAA GGT GGT AAA CCT GAC GTT GTA CAA ATT GTT			720
135	Glu Ile Pro Leu Val Lys Gly Gly Lys Pro Asp Val Val Gln Ile Val			
136	225	230	235	240
137				
138	AGG AAT TAT AAT GCT TAT CTA CGT GCA AGT GAT GAT TTA CCA AAA ATG			768
139	Arg Asn Tyr Asn Ala Tyr Leu Arg Ala Ser Asp Asp Leu Pro Lys Met			
140	245	250	255	
141				
142	TTT ATT GAA TCG GAT CCA GGA TTC TTT TCC AAT GCT ATT GTT GAA GGC			816
143	Phe Ile Glu Ser Asp Pro Gly Phe Phe Ser Asn Ala Ile Val Glu Gly			
144	260	265	270	
145				
146	GCC AAG AAG TTT CCT AAT ACT GAA TTT GTC AAA GTA AAA GGT CTT CAT			864
147	Ala Lys Lys Phe Pro Asn Thr Glu Phe Val Lys Val Lys Gly Leu His			
148	275	280	285	
149				
150	TTT TCG CAA GAA GAT GCA CCT GAT GAA ATG GGA AAA TAT ATC AAA TCG			912
151	Phe Ser Gln Glu Asp Ala Pro Asp Glu Met Gly Lys Tyr Ile Lys Ser			
152	290	295	300	

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/729,133DATE: 12/29/2000  
TIME: 04:50:02

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153  
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 155 Phe Val Glu Arg Val Leu Lys Asn Glu Gln  
 156 305 310  
 157  
 158 CATTTCACAGGG AACATTCATA TATGTTGATT AATTTAGCTC GAACTTTACT CTGTCATATC 1025  
 159 TTTTCACAGGG AACATTCATA TATGTTGATT AATTTAGCTC GAACTTTACT CTGTCATATC 1085  
 160 ATTTTGGAAAT ATTACCTCTT TCAATGAAAC TTTATAAACAA GTGGTTCAAT TAATTAATAT 1145  
 161 ATATTATAAT TACATTTGTT ATGTAATAAA CTCGGTTTTA TTATAAAAAA A 1196

162  
 163 (2) INFORMATION FOR SEQ ID NO:2:  
 164

165 (i) SEQUENCE CHARACTERISTICS:  
 166 (A) LENGTH: 1822 base pairs  
 167 (B) TYPE: nucleic acid  
 168 (C) STRANDEDNESS: single  
 169 (D) TOPOLOGY: linear

170  
 171 (ii) MOLECULE TYPE: cDNA  
 172

173 (ix) FEATURE:  
 174 (A) NAME/KEY: Coding Sequence  
 175 (B) LOCATION: 1...1665  
 176 (D) OTHER INFORMATION: Cypridina hilgendorfii luciferase

177 (x) PUBLICATION INFORMATION:  
 178 (H) Document Number!  
 179 (P) PATENT NO.: EP 0 387 355 TORAY

180 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

181 ATG AAG CTA ATA ATT CTG TCT ATT ATA TTG GCC TAC TGT GTC ACA GTC 48  
 182 Met Lys Leu Ile Ile Leu Ser Ile Ile Leu Ala Tyr Cys Val Thr Val  
 183 1 5 10 15  
 184 AAC TGC CAG GAT GCA TGT CCT GTA GAA GCT GAA GCA CCG TCA AGT ACA 96  
 185 Asn Cys Gln Asp Ala Cys Pro Val Glu Ala Glu Ala Pro Ser Ser Thr  
 186 20 25 30  
 187 CCA ACA GTC CCA ACA TCT TGT GAA GCT AAA GAA GGA GAA TGT ATC GAT 144  
 188 Pro Thr Val Pro Thr Ser Cys Glu Ala Lys Glu Gly Glu Cys Ile Asp  
 189 35 40 45  
 190 ACC AGA TGC GCA ACA TGT AAA CGA GAC ATA CTA TCA GAC GGA CTG TGT 192  
 191 Thr Arg Cys Ala Thr Cys Lys Arg Asp Ile Leu Ser Asp Gly Leu Cys  
 192 50 55 60  
 193 GAA AAT AAA CCA GGG AAG ACA TGC TGT AGA ATG TGC CAG TAT GTA ATT 240  
 194 Glu Asn Lys Pro Gly Lys Thr Cys Cys Arg Met Cys Gln Tyr Val Ile  
 195 65 70 75 80  
 196 GAA TCC AGA GTA GAA GCT GCT GGA TAT TTT AGA ACG TTT TAC GCC AAA 288  
 197

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/729,133DATE: 12/29/2000  
TIME: 04:50:02

INPUT SET: S36258.raw

206	Glu Ser Arg Val Glu Ala Ala Gly Tyr Phe Arg Thr Phe Tyr Ala Lys		
207	85	90	95
208			
209	AGA TTT AAT TTT CAG GAA CCT GGT AAA TAT GTG CTG GCT CGA GGA ACC		336
210	Arg Phe Asn Phe Gln Glu Pro Gly Lys Tyr Val Leu Ala Arg Gly Thr		
211	100	105	110
212			
213	AAG GGT GGC GAC TGG TCT GTA ACC CTC ACC ATG GAG AAT CTA GAT GGA		384
214	Lys Gly Asp Trp Ser Val Thr Leu Thr Met Glu Asn Leu Asp Gly		
215	115	120	125
216			
217	CAG AAG GGA GCT GTA CTG ACT AAG ACA ACA CTG GAG GTA GTC GGA GAC		432
218	Gln Lys Gly Ala Val Leu Thr Lys Thr Thr Leu Glu Val Val Gly Asp		
219	130	135	140
220			
221	GTA ATA GAC ATT ACT CAA GCT ACT GCA GAT CCT ATC ACA GTT AAC GGA		480
222	Val Ile Asp Ile Thr Gln Ala Thr Ala Asp Pro Ile Thr Val Asn Gly		
223	145	150	155
224			160
225	GGA GCT GAC CCA GTT ATC GCT AAC CCG TTC ACA ATT GGT GAG GTG ACC		528
226	Gly Ala Asp Pro Val Ile Ala Asn Pro Phe Thr Ile Gly Glu Val Thr		
227	165	170	175
228			
229	ATT GCT GTT GTC GAA ATA CCC GGC TTC AAT ATT ACA GTC ATC GAA TTC		576
230	Ile Ala Val Val Glu Ile Pro Gly Phe Asn Ile Thr Val Ile Glu Phe		
231	180	185	190
232			
233	TTT AAA CTA ATC GTG ATA GAT ATT CTG GGA GGA AGA TCT GTG AGA ATT		624
234	Phe Lys Leu Ile Val Ile Asp Ile Leu Gly Gly Arg Ser Val Arg Ile		
235	195	200	205
236			
237	GCT CCA GAC ACA GCA AAC AAA GGA CTG ATA TCT GGT ATC TGT GGT AAT		672
238	Ala Pro Asp Thr Ala Asn Lys Gly Leu Ile Ser Gly Ile Cys Gly Asn		
239	210	215	220
240			
241	CTG GAG ATG AAT GAC GCT GAT GAC TTT ACT ACA GAC GCA GAT CAG CTG		720
242	Leu Glu Met Asn Asp Ala Asp Asp Phe Thr Thr Asp Ala Asp Gln Leu		
243	225	230	235
244			240
245	GCG ATC CAA CCC AAC ATA AAC AAA GAG TTC GAC GGC TGC CCA TTC TAC		768
246	Ala Ile Gln Pro Asn Ile Asn Lys Glu Phe Asp Gly Cys Pro Phe Tyr		
247	245	250	255
248			
249	GGG AAT CCT TCT GAT ATC GAA TAC TGC AAA GGT CTC ATG GAG CCA TAC		816
250	Gly Asn Pro Ser Asp Ile Glu Tyr Cys Lys Gly Leu Met Glu Pro Tyr		
251	260	265	270
252			
253	AGA GCT GTA TGT CGT AAC AAT ATC AAC TTC TAC TAT TAC ACT CTG TCC		864
254	Arg Ala Val Cys Arg Asn Asn Ile Asn Phe Tyr Tyr Thr Leu Ser		
255	275	280	285
256			
257	TGC GCC TTC GCT TAC TGT ATG GGA GGA GAA AGA GCT AAA CAC GTC		912
258	Cys Ala Phe Ala Tyr Cys Met Gly Gly Glu Arg Ala Lys His Val		

PAGE: 1



SEQUENCE VERIFICATION REPORT  
PATENT APPLICATION US/09/729,133

DATE: 12/29/2000  
TIME: 04:50:03

**INPUT SET: S36258.raw**

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Original Text

26

Wrong application Serial Number

(A) APPLICATION NUMBER: 09/444,762

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